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QUARTERLY SAMPLING REPORT

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

SANTA FE SPRINGS, CALIFORNIA

08-64-56

August, 1986

Prepared by:

J.H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

J. H. KLEINFELDER & ASSOCIATES
GEOTECHNICAL CONSULTANTS • MATERIALS TESTING
LAND AND WATER RESOURCES

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J. H. KLEINFELDER & ASSOCIATES

GEOTECHNICAL CONSULTANTS • MATERIALS TESTING LAND & WATER RESOURCES

VICTORIA CORNER BUSINESS PARK 901 WEST VICTORIA STREET, SUITE G COMPTON, CALIFORNIA 90220

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August 7, 1986

Q-1014-3

California Regional Water Quality Control Board Los Angeles Region 107 South Broadway, Room 4027 Los Angeles, CA 90012-4596

Attention: Mr. Hank Yacoub

Subject:

Southern California Chemical Co., Inc.

Quarterly Sampling - July, 1986

Dear Mr. Yacoub:

Attached to this letter is our quarterly sampling report of the Southern California Chemical Co., Inc. Santa Fe Springs facility. The report presents a summary of the laboratory testing and sampling protocol used during sampling and analysis of the twelve groundwater wells.

We trust the information presented in the report meets you needs at this time. Should you have any questions, please feel free to contact us at your convenience.

Very truly yours,

J.H. KLEINFELDER & ASSOCIATES

Comment - 1

Kenneth L. Durand Hydrogeologist

Randolph C. Harris

Senior Hydrogeologist, R.G. #3708

KLD:RCH:kl

cc: Tere King

John Leo Mark Vest

William Wilson

1.0 INTRODUCTION

Southern California Chemical Co., Inc., as part of its environmental assessment of the Santa Fe Spring facility has undertaken quarterly sampling of the on-site groundwater monitoring wells. The intent of this sampling program is to provide a long term data base of the site and to detect any changes in the chromium/cadmium plume that is located in the vicinity of MW 4.

A total of twelve monitoring wells are sampled as part of this program (Plate 1). Eleven of the twelve wells sample from the uppermost portion of the first aquifer encountered beneath the site. One well (MW 4A) samples from the bottommost portion of this same aquifer.

This report presents the data obtained from the second quarterly sampling (July 1986) interval along with all previous sampling. Representatives from the Regional Water Quality Control Board were present and were provided split samples, when requested for all sampling periods to date. The original laboratory reports and chain of custody records of the July 1986 sampling are included in the Appendices. The third quarterly sampling is scheduled for September 1986 with a report to the Regional Water Quality Control Board to follow in October 1986.

2.0 MONITORING WELL SAMPLING PROTOCOL

Sampling occurred on July 7, 8, 9 and 10, 1986, and was performed

by a J.H. Kleinfelder & Associates Environmental Technician using the Mark I groundwater sampling vehicle. Athar Khan of the Regional Water Quality Control Board was present on July 9 and 10, 1986 to observe sampling and to collect split samples.

All wells were measured for static water level prior to sampling. The wells were then purged and sampled using an air-activated, submersible pump (bladder pump) constructed of stainless steel and silicon. To minimize the potential for cross-contamination, the pump and teflon sampler line were thoroughly decontaminated before sampling and between wells, as described in Appendix A.

3.0 LABORATORY TESTING

Laboratory testing for the July 1986 quarterly sampling consisted of analyzing 12 well samples and 7 quality control samples. Monitoring well samples were analyzed for the following.

Compound	Method

Hexavalent Chromium	Standard Methods 312B
Total Chromium	EPA Method 218.2
Nitrate Nitrogen	EPA Method 353.2
Chloride	EPA Method 325.3
Copper	EPA Method 220.1
Zinc	EPA Method 289.1
Cadmium	EPA Method 218.2
TOX	EPA Method 9020
TOC	EPA Method 415.1
На	EPA Method 150.1
Specific Conductance	EPA Method 120.1
Purgeable Organics	EPA Method 624

Quality control samples were collected to verify that crosscontamination between wells was not occurring during sampling. Samples were collected prior to the first well and between every second well. Q.C. samples were analyzed for purgeable organics by EPA Method 624. This parameter was chosen because background levels of TCE are present in every well and the analysis provides a very low (ppb) detection range. This provides for a very good indication of possible cross-contamination.

Testing was performed by Brown and Caldwell Laboratories of Pasadena, California. The results of the testing are summarized and presented in Tables A through L. Individual test results are included in Appendix B with chain of custody records in Appendix C.

The results of this quarterly sampling are submitted for the review and records of the Regional Water Quality Control Board. Please direct any pertinent review comments to our attention at your earliest convenience.

Sincerely,

J.H. KLEINFELDER & ASSOCIATES

Kenneth L. Durand Staff Hydrogeologist

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Randolph C. Harris

Senior Hydrogeologist, R.G. #3708

KLD: RCH: kl



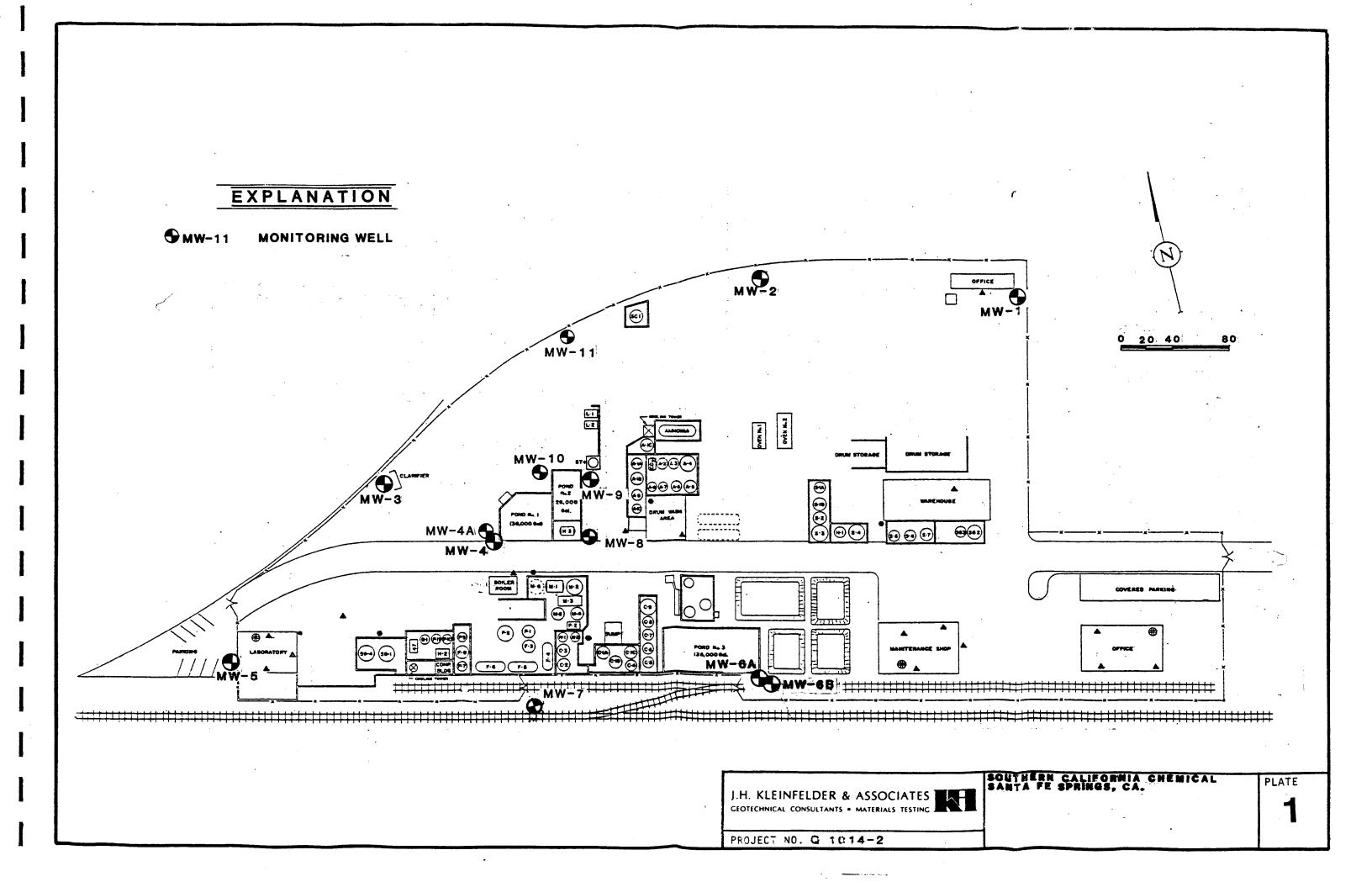


TABLE A

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #1

		DATE	SAMPLED	
	2-85/3-85	7-85/ ₈₋₈₅ 3-85		
COMPOUND	E.P.A. I	ndicator Parameters	(CFR 40 265.92)	
PH (Units)	7.3	7.1	7.2	
TOC (mg/1)	3.7	19	35	
TOX (mg/1)	ND.05	ND.08		
SP. COND. (umhos/cm)	2300	3400	1650	
:		•		
	Site Spe	cific Indicator Para	meters	
CHROMIUM (TOTAL) (mg/1)	ND.0005	ND.03	ND.03	
CHROMIUM (HEX) (mg/1)	ND.05	ND.02		
CADMIUM (mg/1)	ND.0002	ND.00		
COPPER (mg/1)	ND.08	ND.02		
ZINC (mg/l)	ND.019	0.18	0.04	
CHLORIDE (mg/1)	330	300	650	
NITRATE as N (mg/l)	7.0	3.7	4.1	
NITRATE as NO ₃ (mg/1)	31	17	18	
NOTE: ND ₁ = Compound wa	Organic	d at 1 mg/l. Compounds (E.P.A. Me	thod 624)	
	1)	\mathtt{ND}_1	\mathtt{ND}_1	
	_ /1 \	_		
1, 1-DICHLOROETHYLENE (u		ND_1	ND_1	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/		\mathtt{ND}_1	ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1)	1)	$ \text{ND}_{1}^{2} $ $ \text{ND}_{1}$	\mathtt{ND}_1 \mathtt{ND}_1	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug	1)	$\begin{array}{c} \mathtt{ND}_1\\ \mathtt{ND}_1\\ \mathtt{ND}_1\end{array}$	ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1)	1)	$\begin{array}{c} \mathtt{ND}_1\\ \mathtt{ND}_1\\ \mathtt{ND}_1\\ \mathtt{ND}_1\\ \mathtt{ND}_1\end{array}$	ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)	1) /1)	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1	1) /1)	ND1 ND1 ND1 ND1 ND1 16	ND ₁ ND ₁ ND ₁ ND ₁ 16	
1, 1-DICHLOROETHANE (ug/ 1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1 TOLUENE (ug/1)	1) /1)	ND ₁ ND ₁ ND ₁ ND ₁ 16 ND ₁	ND ₁ ND ₁ ND ₁ ND ₁ 16 ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1	1) /1)	ND1 ND1 ND1 ND1 ND1 16	ND ₁ ND ₁ ND ₁ ND ₁ 16	

TABLE B

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #2

			DATE SA	AMPLED		
	2-85/3-85	7-85/ ₈₋₈₅	3-85	5-86	7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters (CFR 40 2	65.92)	
PH (Units)	7.0		7.4		7.7	
TOC (mg/1)	34		4.8		ND 3	
			ND.08	•	^^	-
TOX (mg/1)	ND.05		ND.UO		ND.08	
TOX (mg/1) SP. COND. (umhos/cm)	2300		1900		ND.08 1800	
SP. COND. (umhos/cm)	2300 Site Spe	ecific Indica	1900	eters		•
SP. COND. (umhos/cm) CHROMIUM (TOTAL) (mg/1)	Site Spe	ND.033	1900 ator Parame	eters	1800 ND.03	•
SP. COND. (umhos/cm) CHROMIUM (TOTAL) (mg/1) CHROMIUM (HEX) (mg/1)	2300 Site Spe ND.0005 ND.05		1900 ator Parame ND.03 ND.02	eters	ND.03 ND.02	•
SP. COND. (umhos/cm) CHROMIUM (TOTAL) (mg/1) CHROMIUM (HEX) (mg/1) CADMIUM (mg/1)	2300 Site Spe ND.0005 ND.05 ND.0002	ND.033	ND.03 ND.02 ND.009	eters	ND.03 ND.02 ND.01	•
CHROMIUM (TOTAL) (mg/1) CHROMIUM (HEX) (mg/1) CADMIUM (mg/1) COPPER (mg/1)	2300 Site Spe ND.0005 ND.05 ND.0002 ND.08	ND.033	1900 ator Parame ND.03 ND.02 ND.009 ND.02	eters	ND.03 ND.02 ND.01 ND.02	•
SP. COND. (umhos/cm) CHROMIUM (TOTAL) (mg/l) CHROMIUM (HEX) (mg/l) CADMIUM (mg/l) COPPER (mg/l) ZINC (mg/l)	2300 Site Spe ND.0005 ND.05 ND.0002 ND.08 ND.019	ND.033	1900 ator Parame ND.03 ND.02 ND.009 ND.02 ND.03	eters	ND.03 ND.02 ND.01 ND.02 ND.04	•
CHROMIUM (TOTAL) (mg/1) CHROMIUM (HEX) (mg/1) CADMIUM (mg/1) COPPER (mg/1)	2300 Site Spe ND.0005 ND.05 ND.0002 ND.08	ND.033	1900 ator Parame ND.03 ND.02 ND.009 ND.02	eters	ND.03 ND.02 ND.01 ND.02	•

	Organic	Compounds	(E.P.A.	Method 624)	
1, 1-DICHLOROETHANE (ug/1)		4	3		ND ₁
1, 1-DICHLOROETHYLENE (ug/1)		3	ND_1		ND ₁
1, 2-DICHLOROETHANE (ug/1)		ND ₁	ND_1		3
BENZENE (ug/1)		ND_1	ND ₁		ND ₁
CARBON TETRACHLORIDE (ug/1)		ND_1	ND_1		ND ₁
CHLOROFORM (ug/1)		ND_1	ND_1		ND ₁
ETHYL BENZENE (ug/1)		ND_1	ND_1		3
THRICHLOROETHYLENE (ug/1)		21	22		€ 12
TOLUENE (ug/1)		ND_1	\mathtt{ND}_1		3
XYLENE (ug/1)		ND_1	ND_1		2
METHYLENE CHLORIDE (ug/1)		ND 1	ND_1		ND ₁
		-			

TABLE C

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #3

			DATE S	SAMPLED		
•	2-85/3-85	7-85/ ₈₋₈₅	3-86	5-86	7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters ((CFR 40 26	5.92)	
PH (Units)	7.4		7.0		7.2	
TOC (mg/l)	16		190		44	
TOX (mg/l)	0.17		ND.08		.18	
SP. COND. (umhos/cm)	1700		1500		2200	
	Site Spe	ecific India	ator Param	neters		
CHROMIUM (TOTAL) (mg/1)	ND.0005	ND.033	ND.03		ND.03	
CHROMIUM (HEX) (mg/1)	ND.05	ND.033	ND.02		ND.02	
CADMIUM (mg/1)	ND.0002	ND.011	ND.009		ND.01	
COPPER (mg/1)	ND.08		ND.02		ND.02	
ZINC (mg/1)	ND.019		0.26		ND.04	
CHLORIDE (mg/1)	170		76		400	
NITRATE as N (mg/1)	3.0		ND ₁		6.5	
NITRATE as NO ₃ (mg/1)	13		ND 4.4		29	
NOTE: ND ₁ = Compound wa	Organic	d at 1 mg/1	E.P.A. Met			
1, 1-DICHLOROETHANE (ug/		6	ND 50	5	4	
1, 1-DICHLOROETHYLENE (u		14	ND ₅₀	11	7 6	
1, 2-DICHLOROETHANE (ug/BENZENE (ug/1)	1)	ND ₁	ND ₅₀	9 3		
CARBON TETRACHLORIDE (ug	/1)	73	ND 50	78	ND ₁ 110	
CHLOROFORM (ug/1)	<i>(1 −)</i>	75 46	ND ₅₀ ND ₅₀	76 36	97	
ETHYL BENZENE (ug/1)		ND ₁	95000	1100	ND ₁	
THRICHLOROETHYLENE (ug/1	3	320	ND ₅₀	160	170	
TOLUENE (ug/1)	•	2	15000	11	ND ₁	
XYLENE (ug/1)		ND ₁	20000	2000	ND ₁	
METHYLENE CHLORIDE (ug/1)	ND ₁	ND ₅₀	ND ₁	ND ₁	
	,		412711	1170	1114 I	

TABLE D

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #4

		DATE	SAMPLED	
	2-85/3-85	7-85/ ₈₋₈₅ 3-86	5-86 7-86	
COMPOUND	E.P.A.	Indicator Parameters	(CFR 40 265.92)	
PH (Units)	6.3	7.1	7.1	
TOC (mg/l)	36	26-	110	
TOX (mg/l)	ND.05	.26	.19	
SP. COND. (umhos/cm)	6400	3600	3500	

	Site	Specific Indi	cator Paramete	rs
CHROMIUM (TOTAL) (mg/1)	500	550	61	120
CHROMIUM (HEX) (mg/1)	500	500		120
CADMIUM (mg/1)	0.78	0.92	0.035	0.04
COPPER (mg/1)	ND.08		ND.02	ND.02
ZINC (mg/l)	0.06		ND.03	ND.04
CHLORIDE (mg/1)	2300	•	1100	. 770
NITRATE as N (mg/l)	18	12	ND_{13}	0.5
NITRATE as NO ₃ (mg/l)	81	55	ND55	2.4

NOTE: ND_1 = Compound was not detected at 1 mg/1.

	Organic Compounds	(E.P.A.	Method 624)	
1, 1-DICHLOROETHANE (ug/1)	100	100	42	57
1, 1-DICHLOROETHYLENE (ug/1)	100	42	34	41
1, 2-DICHLOROETHANE (ug/1)	ND ₅₀	17	34	61
BENZENE (ug/1)	ND_{50}	16	9	\mathtt{ND}_1
CARBON TETRACHLORIDE (ug/1)	ND 50	\mathtt{ND}_1	\mathtt{ND}_1	\mathtt{ND}_1^-
CHLOROFORM (ug/1)	ND ₅₀	7	3	8
ETHYL BENZENE (ug/1)	3000	36	50	1100
THRICHLOROETHYLENE (ug/1)	550	140	170	200
TOLUENE (ug/1)	8300	130	25	330
XYLENE (ug/1)	10000	100	30	300
METHYLENE CHLORIDE (ug/1)	100	12	\mathtt{ND}_1	17

NOTE: ND₁ = Compound was not detected at 1 ug/1.

TABLE E

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL # 4A

			DATE SA	MPLED	
	2-85/3-85	7-85/ ₈₋₈₅	3-86	5-86 7-86	
COMPOUND	E.P.A. I	Indicator Par	ameters (C	FR 40 265.92)	·
PH (Units)		6.8	7.5	7.6	
TOC (mg/1)		40	8.3	ND_3	-
TOX (mg/1)		ND.05	ND.08	ND.08	:
SP. COND. (umhos/cm)		1500	1500	850	
:		•			
	Site Spe	cific Indica	tor Parame	ters	
CHROMIUM (TOTAL) (mg/1)		ND.03	ND.03	ND.03	
CHROMIUM (HEX) (mg/1)		ND.5		ND.02	
CADMIUM (mg/1)		ND.01	ND.01	ND.01	
COPPER (mg/1)			ND.02	ND.02	
ZINC (mg/l)			ND.03	ND.04	
CHLORIDE (mg/1)			100	110	
			7.5	6.1	
NITRATE as N (mg/l)		4.5			
		20	33	27	
NITRATE as NO ₃ (mg/1)	not detecte	20	33		
	not detecte	20	33		
NITRATE as NO ₃ (mg/1)		20	33	27	
NITRATE as NO ₃ (mg/1)	Organic	20 d at 1 mg/1.	33	27 od 624)	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was	Organic	20 d at 1 mg/1.	33	27 od 624)	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/l	Organic () (/1)	20 d at 1 mg/1.	33 2.P.A. Metho	27 2d 624) 11 2 ND1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l)	Organic () (/1)	20 d at 1 mg/1.	33 I.P.A. Metho 13	27 2d 624) 11 2 ND1 ND1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHANE (ug/l 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/	Organic () (/1)	20 d at 1 mg/1.	33 2.P.A. Method 13 1 ND1 8 ND1	27 20d 624) 11 2 ND1 ND1 ND1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHANE (ug/l 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/CHLOROFORM (ug/l)	Organic () (/1)	20 d at 1 mg/1.	33 2.P.A. Method 13 1 ND ₁ 8 ND ₁ ND ₁ ND ₁	27 2 ND 1 ND 1 ND 1 ND 1 ND 1 ND 1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHANE (ug/l 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/CHLOROFORM (ug/l) ETHYL BENZENE (ug/l)	Organic () (/1) (/1)	20 d at 1 mg/1.	33 2.P.A. Method 13 1 ND1 8 ND1	27 20d 624) 11 2 ND1 ND1 ND1 ND1 ND1 ND1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/l) ETHYL BENZENE (ug/l) THRICHLOROETHYLENE (ug/l)	Organic () (/1) (/1)	20 d at 1 mg/1.	33 1. ND1 8 ND1 ND1 ND1 ND1 ND1 8	27 20d 624) 11 2 ND1 ND1 ND1 ND1 ND1 ND1 7	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/l) BENZENE (ug/l) CARBON TETRACHLORIDE (ug/CHLOROFORM (ug/l) ETHYL BENZENE (ug/l) THRICHLOROETHYLENE (ug/l) TOLUENE (ug/l)	Organic () (/1) (/1)	20 d at 1 mg/1.	33 1. ND1 8 ND1 ND1 ND1 ND1 ND1 ND1 ND1 ND1 ND1	27 20d 624) 11 2 ND1 ND1 ND1 ND1 ND1 ND1 7 ND1	
NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug/l 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/CHLOROFORM (ug/l) ETHYL BENZENE (ug/l)	Organic (1) (1)	20 d at 1 mg/1.	33 1. ND1 8 ND1 ND1 ND1 ND1 ND1 8	27 20d 624) 11 2 ND1 ND1 ND1 ND1 ND1 ND1 7	

TABLE F

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #5

			DATE SA	MPLED		
	2-85/3-85	7-85/ ₈₋₈₅	3-86	5-86	7-86	
COMPOUND	E.P.A.	Indicator Par	cameters (C	FR 40 26	5.92)	
PH (Units)	7.3		7.4		7.3	
TOC (mg/1)	ND ₃	•	4.8		. 5	
TOX (mg/1)	.19		.16		.65	
SP. COND. (umhos/cm)	1700		1200		1400	
		:			· .	
	21. 0				•	
	Site Sp	ecific Indica	itor Parame	cers		
CHROMIUM (TOTAL) (mg/1)	ND.0005		ND.03		ND.03	
CHROMIUM (HEX) (mg/1)	ND.05		ND.02		ND.02	
CADMIUM (mg/1)	ND.0002		ND.009		ND.01	
COPPER (mg/1)	ND.08		ND.02		ND.02	
ZINC (mg/l)	ND.0019		0.18		ND.04	
CHLORIDE (mg/1)	2.0		6 6		79	
NITRATE as N (mg/l)	0.42		8.8		12	
NITRATE as NO ₃ (mg/l)	1.9		39		55	
NOTE: ND ₁ = Compound wa		ed at 1 mg/1.		od 624)		
1, 1-DICHLOROETHANE (ug/	1)	ND ₁	ND_1		2	
1, 1-DICHLOROETHYLENE (u		ND_1	ND_1		3	
1, 2-DICHLOROETHANE (ug/	1)	\mathtt{ND}_1	\mathtt{ND}_1		ND ₁	
BENZENE (ug/1)		5	ND_1		ND_1	
CARBON TETRACHLORIDE (ug	/1)	3	11		45.5	
CHLOROFORM (ug/1)		2	10		14.5	
ETHYL BENZENE (ug/1)		ND_1	ND ₁		ND_1	
THRICHLOROETHYLENE (ug/1)	10	24		64	
TOLUENE (ug/1)		1	ND_1		\mathtt{ND}_1	
XYLENE (ug/1)		ND_1	ND_1		ND_1	
METHYLENE CHLORIDE (ug/1)	ND_1	ND ₁		ND_1	

TABLE G

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #6B

		DATE S	AMPLED	
:	2-85/3-85	7-85/ ₈₋₈₅ 3-86	5-86 7-86	
COMPOUND	E.P.A. I	ndicator Parameters (CFR 40 265.92)	
PH (Units)	7.6	7.4	7.5	
TOC (mg/l)	\mathtt{ND}_3	6.5	ND3	
TOX (mg/l)	0.10	ND.08	ND.08	
SP. COND. (umhos/cm)	1400	1300	1400	_
•		•	:	
	Site Spe	cific Indicator Param	eters	
CHROMIUM (TOTAL) (mg/l)	0.0038			
CHROMIUM (HEX) (mg/l)	ND.05	ND.03 ND.02	ND.03	
CADMIUM (mg/1)	ND.0002	ND.02	ND.02 ND.01	
COPPER (mg/1)	ND.0002	ND.009	ND.02	
ZINC (mg/l)	ND.03	ND.02	ND.04	
CHLORIDE (mg/1)	79	220	82	
NITRATE as N (mg/1)	6.3	8.8	7.0	
NITRATE as NO ₃ (mg/l)	28	39	31	
NOTE: ND ₁ = Compound wa	s not detecte	d at 1 mg/1.		
•	_			
		Compounds (E.P.A. Met		
1, 1-DICHLOROETHANE (ug/	1)	ND ₁	ND ₁	
1, 1-DICHLOROETHYLENE (u	1) g/1)	ND ₁ ND ₁	ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/	1) g/1)	$\begin{array}{c} \mathtt{ND_1} \\ \mathtt{ND_1} \\ \mathtt{ND_1} \end{array}$	ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1)	1) g/1) 1)	ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug	1) g/1) 1)	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug CHLOROFORM (ug/1)	1) g/1) 1)	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)	1) g/1) 1)	ND ₁	ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1	1) g/1) 1)	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	ND ₁	
1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1) TOLUENE (ug/1)	1) g/1) 1)	ND ₁	ND ₁	
1, 1-DICHLOROETHYLENE (u 1, 2-DICHLOROETHANE (ug/ BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)	1) g/1) 1) /1)	ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	ND ₁	

TABLE H

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #7

				m: =D	
-			DATE SAN	PLED	
_	2-85/ ₃₋₈₅	7-85/ ₈₋₈₅	3-86	5-86 7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters (CI	TR 40 265.92)	
PH (Units)		6.3	7.3	7.4	
IOC (mg/1)	-	260	6.5	5	
rox (mg/1)		0.081	ND.08	ND.08	
SP. COND. (umhos/cm)		2700	1700	1900	
	Site St	ecific Indica	ator Paramet	ers	
CHROMIUM (TOTAL) (mg/1)		ND.03	ND.03	ND.03	
CHROMIUM (HEX) (mg/1)		ND.5	ND.02	ND.02	
CADMIUM (mg/1)		ND.01	ND.009	ND.01	
COPPER (mg/l)			ND.02	ND.02	
ZINC (mg/l)			ND.03	ND.04	
CHLORIDE (mg/1)		380	190	280	
NITRATE as N (mg/l)		27	5.0	4.3	
NITRATE as NO ₃ (mg/l)		120	22	19	
NOTE: ND ₁ = Compound was	not detect	ed at 1 mg/1.			
NOTE: ND ₁ = Compound was					
		ed at 1 mg/l.	E.P.A. Metho		
I, 1-DICHLOROETHANE (ug/l)	Organio		E.P.A. Metho	8	
I, 1-DICHLOROETHANE (ug/l) I, 1-DICHLOROETHYLENE (ug/	Organio		E.P.A. Metho 2 ND ₁	8 2	
1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/1)	Organio		2 ND ₁ ND ₁	8 2 ND ₁	
1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1)	Organic		2 ND ₁ ND ₁ 64	8 2 ND ₁ ND ₁	
1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/1) 1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1	Organic		2 ND ₁ ND ₁ 64 ND ₁	8 2 ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/1) 1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1)	Organic		2 ND ₁ ND ₁ 64 ND ₁ ND ₁	8 2 ND ₁ ND ₁ ND ₁ ND ₁	
I, 1-DICHLOROETHANE (ug/1) I, 1-DICHLOROETHYLENE (ug/1) I, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)	Organic		2 ND ₁ ND ₁ 64 ND ₁ ND ₁ ND ₁ ND ₁	8 2 ND ₁ ND ₁ ND ₁ ND ₁	
I, 1-DICHLOROETHANE (ug/1) I, 1-DICHLOROETHYLENE (ug/1) I, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1 CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) IHRICHLOROETHYLENE (ug/1)	Organic		2 ND ₁ ND ₁ 64 ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	8 2 ND ₁ ND ₁ ND ₁ ND ₁ 4 67	
1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/1) 1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1 CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1) TOLUENE (ug/1)	Organic		2 ND ₁ ND ₁ 64 ND ₁ ND ₁ ND ₁ ND ₁ 29 2	8 2 ND ₁ ND ₁ ND ₁ 4 67	
NOTE: ND _I = Compound was 1, 1-DICHLOROETHANE (ug/1) 1, 1-DICHLOROETHYLENE (ug/ 1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1) TOLUENE (ug/1) XYLENE (ug/1) METHYLENE CHLORIDE (ug/1)	Organic		2 ND ₁ ND ₁ 64 ND ₁ ND ₁ ND ₁ ND ₁ ND ₁	8 2 ND ₁ ND ₁ ND ₁ ND ₁ 4 67	

TABLE I

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #8

_			DATE SA	MPLED	_
	2-85/ ₃₋₈₅	7-85/ ₈₋₈₅	3-86	5-86 7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters (C	FR 40 265.92)	
PH (Units)		6.6	7.5	7.4	
TOC (mg/l)		99	7	- 8	
TOX (mg/l)	. •	0.44	.09	ND.08	
SP. COND. (umhos/cm)		2800	1500	1700	
•			•	·	
	Site So	ecific Indica	ator Parame	ters	
CHROMIUM (TOTAL) (mg/l)		ND.03	ND.03	ND.03	
CHROMIUM (HEX) (mg/l)		ND.05	ND.02	ND.02	
CADMIUM (mg/l)		ND.01	ND.009 ND.02	ND.01 ND.02	
COPPER (mg/1) ZINC (mg/1)			ND.02	ND.04	
CHLORIDE (mg/1)			530	170	
NITRATE as N (mg/l)		1.3	4.2	3.2	
NITRATE as NO ₃ (mg/l)		5.8	18	14	
NOTE: ND ₁ = Compound was	not detect	ed at 1 mg/1.	•		
	Organic	Compounds (E.P.A. Meth	od 624)	
1, 1-DICHLOROETHANE (ug/1))		41	76	
. I BY MIT ABARMINE BUT /	/1)		3	8	
1, 1-DICHLOROETHYLENE (ug,	-/				
1, 2-DICHLOROETHANE (ug/1)			1	14	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1)			$^{1}_{ exttt{ND}_{1}}$	ND_1	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1)			1 ND ₁ ND ₁	$\begin{array}{c} \mathtt{ND_1} \\ \mathtt{ND_1} \end{array}$	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1)			$\begin{array}{c} 1 \\ \mathbf{ND_1} \\ \mathbf{ND_1} \\ \mathbf{ND_1} \end{array}$	$\begin{array}{c} \text{ND}_1 \\ \text{ND}_1 \\ \end{array}$	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)		<u> </u>	1 ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ 2 2	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1)			I ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ 2 2 28	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1) TOLUENE (ug/1)		: : : :	I ND ₁ ND ₁ ND ₁ ND ₁ 19 ND ₁	ND ₁ ND ₁ 2 2 2 8 3	
1, 2-DICHLOROETHANE (ug/1) BENZENE (ug/1) CARBON TETRACHLORIDE (ug/1) CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1)		; ; £	I ND ₁ ND ₁ ND ₁ ND ₁	ND ₁ ND ₁ 2 2 28	

TABLE J

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #9

	2-85/3-85	7-85/ ₈₋₈₅	3-86	5-86	7-86
COMPOUND	E.P.A.	Indicator Pa	rameters (CFR 40 265.	92)
PH (Units)		6.4	7.4		7.3
TOC (mg/1)	•	210	. 14		28
COX (mg/l)		0:13	.26		.12
SP. COND. (umhos/cm)		2200	2800	20	000

te Specific indic	ator rarameters	<u> </u>
ND.03	ND.03	ND.03
ND.5	ND.02	ND.02
ND.01	ND.009	ND.01
	ND.02	ND.02
	ND.03	ND.04
300	530	250
1.4	8.8	3.2
6.3	39	14
	ND.03 ND.5 ND.01	ND.5 ND.02 ND.01 ND.009 ND.02 ND.03 300 530 1.4 8.8

NOTE: ND_1 = Compound was not detected at 1 mg/1.

	Organic	Сощо	unds	(E.P.A.	Method 624)	
1, 1-DICHLOROETHANE (ug/1)			•	99		50
1, 1-DICHLOROETHYLENE (ug/1)				18		18
1, 2-DICHLOROETHANE (ug/1)				10		13
BENZENE (ug/1)				ND_1		ND_1
CARBON TETRACHLORIDE (ug/1)				ND 1		ND ₁
CHLOROFORM (ug/1)				2Õ		4
ETHYL BENZENE (ug/1)	2			ND ₁		ND ₁
THRICHLOROETHYLENE (ug/1)		:	£	6Ĩ		3
TOLUENE (ug/1)				ND_1		ND ₁
XYLENE (ug/1)				ND ₁		ND ₁
METHYLENE CHLORIDE (ug/1)				11Õ		ND 1
_						•

TABLE K

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL #10

			DATE SA	MPLED		
	^{2-85/} 3-85	7-85/ ₈₋₈₅	3-86	5-86	7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters (C	FR 40 26	5.92)	
PH (Units)		6.8	7.8		7.6	
TOC (mg/l)		440	10		130	
TOX (mg/l)		0.17	ND.08		ND.08	
SP. COND. (umhos/cm)		2100	1300		1600	
•			:			1
	Site Sp	ecific Indica	ator Parame	ters		
CHROMIUM (TOTAL) (mg/l)		ND.03	ND.03		ND.03	
CHROMIUM (HEX) (mg/1)		ND.5			ND.02	
CADMIUM (mg/1)		ND.01			ND.01	
COPPER (mg/1)			ND.02		ND.02	
ZINC (mg/l)			ND.03		ND.04	
CHLORIDE (mg/1)	•		150		120	
NITRATE as N (mg/l)		ND.1	ND.1		0.1	
NITRATE as NO ₃ (mg/1)		ND 4.4	ND4.4		0.6	
	<u> </u>					
NOTE: ND ₁ = Compound was		ed at 1 mg/1. Compounds (1		od 624)		
1, 1-DICHLOROETHANE (ug/1	Organic)	Compounds (1	E.P.A. Meth	od 624)	6	
1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug	<u>Organic</u>) /1)	Compounds (I ND ₅₀ ND ₅₀	2 1	od 624)	7	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/1	<u>Organic</u>) /1)	Compounds (1 ND ₅₀ ND ₅₀ ND ₅₀	2 1 17	od 624)	7 86	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1)	Organic) /1))	ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀	2 1 17 ND ₁	od 624)	7 86 ND ₁	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug/1 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1) CARBON TETRACHLORIDE (ug/	Organic) /1))	Compounds (1 ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀	2 1 17 ND ₁ ND ₁	od 624)	7 86 ND ₁ ND ₁	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug/1 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1)	Organic) /1))	Compounds (1 ND 50 ND 50 ND 50 ND 50 ND 50 50	2 1 17 ND ₁ ND ₁ ND ₁	nod 624)	7 86 ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1)	Organic) /1))	ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ SO 6500	2 1 17 ND ₁ ND ₁ ND ₁ 68	lod 624)	7 86 ND ₁ ND ₁ ND ₁ ND ₁	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1)	Organic) /1))	ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ 50 6500 250	2 1 17 ND ₁ ND ₁ ND ₁ 68 29	lod 624)	7 86 ND ₁ ND ₁ ND ₁ ND ₁ 56	
1, 1-DICHLOROETHANE (ug/l 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/l BENZENE (ug/l) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/l) ETHYL BENZENE (ug/l) THRICHLOROETHYLENE (ug/l) TOLUENE (ug/l)	Organic) /1))	Compounds (1 ND50 ND50 ND50 ND50 ND50 50 6500 250 17000	2 1 17 ND ₁ ND ₁ ND ₁ 68 29 ND ₁	nod 624)	7 86 ND ₁ ND ₁ ND ₁ ND ₁ 56 ND ₁	
1, 1-DICHLOROETHANE (ug/1 1, 1-DICHLOROETHYLENE (ug 1, 2-DICHLOROETHANE (ug/1 BENZENE (ug/1) CARBON TETRACHLORIDE (ug/ CHLOROFORM (ug/1) ETHYL BENZENE (ug/1) THRICHLOROETHYLENE (ug/1)	Organic) /1))	ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ ND ₅₀ 50 6500 250	2 1 17 ND ₁ ND ₁ ND ₁ 68 29	nod 624)	7 86 ND ₁ ND ₁ ND ₁ ND ₁ 56	

TABLE L

SOUTHERN CALIFORNIA CHEMICAL CO., INC.

WATER QUALITY DATA

MONITORING WELL # 11

. •			DATE	SAMPLED		
	2-85/ ₃₋₈₅	7-85/ ₈₋₈₅	3-86	5-86	7-86	
COMPOUND	E.P.A.	Indicator Pa	rameters	(CFR 40 26	55.92)	
PH (Units)		6.6	7.8		7.2	
TOC (mg/1)		54	13		120	
TOX (mg/1)		ND.05	0.1	••	ND.08	
SP. COND. (umhos/cm)		1600	1600		1700	
				:		
	Site S	pecific Indica	ator Paras	neters		
HROMIUM (TOTAL) (mg/1)		ND.03	ND.03		ND.03	
HROMIUM (HEX) (mg/l)		ND.5			ND.02	
CADMIUM (mg/1)		ND.01	ND.01		ND.01	
COPPER (mg/l)			ND.02		ND.02	
ZINC (mg/l)			ND.03		ND.04	
HLORIDE (mg/1)		220	230		180	
WITRATE as N (mg/l)	•	1.2	2.5		1.1	
WITRATE as N (mg/l)		1.2 5.2	2.5 11		1.1	•
WITRATE as N (mg/l) WITRATE as NO ₃ (mg/l)	not detect	5.2	11			
WITRATE as N (mg/l) WITRATE as NO ₃ (mg/l)		5.2	11	:hod 624)		
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was	Organio	5.2 ted at 1 mg/l.	11. E.P.A. Met	4	10	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was L, 1-DICHLOROETHANE (ug/l) L, 1-DICHLOROETHYLENE (ug/l)	Organio	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8	4 2	10 5	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was L, 1-DICHLOROETHANE (ug/l) L, 1-DICHLOROETHYLENE (ug/l) L, 2-DICHLOROETHANE (ug/l)	Organio	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8	4 2 31	10 5 17	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was L, 1-DICHLOROETHANE (ug/l) L, 1-DICHLOROETHYLENE (ug/l) L, 2-DICHLOROETHANE (ug/l) BENZENE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8 ND1	4 2 31 3	10 5 17 ND ₁	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was L, 1-DICHLOROETHANE (ug/l) L, 1-DICHLOROETHYLENE (ug/l) L, 2-DICHLOROETHANE (ug/l) SENZENE (ug/l) CARBON TETRACHLORIDE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Mat 10 8 8 ND1 ND1	4 2 31 3 ND ₁	10 5 17 ND ₁ ND ₁	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l) 1, 1-DICHLOROETHANE (ug/l) 2, 2-DICHLOROETHANE (ug/l) 3ENZENE (ug/l) CARBON TETRACHLORIDE (ug/l) CHLOROFORM (ug/l)	Organic	5.2 ted at 1 mg/l.	11 E.P.A. Met 10 8 8 ND1 ND1 3	4 2 31 3 ND ₁ 3	10 5 17 ND ₁ ND ₁ 10	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l) 1, 1-DICHLOROETHANE (ug/l) 2, 2-DICHLOROETHANE (ug/l) NENZENE (ug/l) NENZENE (ug/l) NETHYL BENZENE (ug/l) NETHYL BENZENE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8 ND1 ND1 3 13	4 2 31 3 ND ₁ 3 1800	10 5 17 ND1 ND1 10 2200	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l) 1, 1-DICHLOROETHANE (ug/l) 2, 2-DICHLOROETHANE (ug/l) NENZENE (ug/l) NARBON TETRACHLORIDE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8 ND1 ND1 3 13	4 2 31 3 ND ₁ 3 1800	10 5 17 ND ₁ ND ₁ 10 2200 76	•
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l) 1, 1-DICHLOROETHANE (ug/l) 1, 2-DICHLOROETHANE (ug/l) BENZENE (ug/l) CARBON TETRACHLORIDE (ug/l) CHLOROFORM (ug/l) ETHYL BENZENE (ug/l) THRICHLOROETHYLENE (ug/l) TOLUENE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8 ND1 ND1 3 13 110 ND1	4 2 31 3 ND ₁ 3 1800 . 36 5400	10 5 17 ND1 ND1 10 2200 76 5200	
NITRATE as N (mg/l) NITRATE as NO ₃ (mg/l) NOTE: ND ₁ = Compound was 1, 1-DICHLOROETHANE (ug/l) 1, 1-DICHLOROETHYLENE (ug/l) 2-DICHLOROETHANE (ug/l) BENZENE (ug/l) CARBON TETRACHLORIDE (ug/l) ETHYL BENZENE (ug/l) FIRICHLOROETHYLENE (ug/l) FOLUENE (ug/l) KYLENE (ug/l) GETHYLENE CHLORIDE (ug/l)	Organic	5.2 ted at 1 mg/l.	11. E.P.A. Met 10 8 8 ND1 ND1 3 13	4 2 31 3 ND ₁ 3 1800	10 5 17 ND ₁ ND ₁ 10 2200 76	

J. H. KLEINFELDER & ASSOCIATES

APPENDIX A

MONITORING WELL SAMPLING PROTOCOL

II. Groundwater Sampling

A. Decontamination

The following procedure details the routine that is employed in decontamination of groundwater sampling equipment prior to sample collection:

- 1. Exterior surface of sampling tubes are decontaminated by steam-cleaning during withdrawal from very well.
- 2. Sample pump is disassembled and the used bladder removed.
- 3. All pump components are then steam-cleaned and rinsed in distilled water.
- 4. Pump is reassembled with a new bladder installed.
- 5. Teflon sampler lines are pressure washed with 5 to 10 gallons of clean, hot water through direct connection to steam-cleaner.
- 6. Five gallons of distilled water are then pumped through entire system.
- 7. Prior to sample collection, a minimum of five well volumes are purged from the well to permit collection of a representative groundwater sample from the aquifer penetrated.

B. Purge Volume Determination

The following procedure is followed to determine the appropriate purging volume prior to well sampling.

- 1. The depth-to-water is measured by a clean, electric water level indicator. Measurement datum is the top of fill ring or top of well protector.
- 2. Depth to the bottom of the well is measured by a clean tape and plump bob. If possible, this is compared to the well construction log to determine inconsistencies, i.e. damaged casing, sediment in casing, etc.

3. Water volume is calculated by multiplying total water depth by the inside diameter of the casing. This figure is one well volume.

C. Well Purging and Sampling

- 1. Prior to sampling, a minimum of three to five well volumes are purged from each well to ensure that water sampled is representative of the groundwater within the formation.
- 2. Measurements of pH, conductivity and temperature are taken at frequent intervals during the purge. Stabilization of these values indicates that representative formation fluids are being removed from the well.
- 3. In the event that the well is pumped dry, an alternate procedure will be followed. Once a well is pumped dry, the water that enters the well during recovery is, by definition, representative formation water. The well will, therefore, be pumped dry and allowed to recover to 80% or more of the original water level.
- 4. Purge water is pumped directly into barrels on site until the proper method of disposal is determined.
- 5. Samples pumped directly into sampling bottles prepared by the state certified laboratory contracted for the particular job were labeled and placed in refrigerated coolers for transport to the laboratory.
- 6. Samples are delivered directly to the lab on the same day of sampling by courier, whenever practical. If next day delivery is necessary, the samples are kept refrigerated at 4 degrees C overnight and delivered to the laboratory the following morning.
- 7. Samples are accompanied by a Chain of Custody form which documents the time, date and responsible person during each step of the transportation process.
- 8. The JHK coded sample numbering system allows identification of sample and client to JHK, while not revealing the client to the laboratory or other interested parties.

J. H. KLEINFELDER & ASSOCIATES

Water samples are numbered in the following manner:

W-XX-YY

Where:

W - designates water sample

XX - well number

YY - sequential sample number

For example, W-01-22 indicates a water sample from well number 1. The sample is the 22nd water sample taken at the site.

9. The complete information on the sample label includes:
Date and time

Client job number (never client name)

Sample number

Initials of sampler

Analysis desired (if known)

Preservatives in sample bottle (usually noted by lab)

10. Each sample bottle is given a separate sequential number.

J. H. KLEINFELDER & ASSOCIATES

APPENDIX B

ANALYTICAL LABORATORIES

RECEIVE TO A 1986 A LA

LOG NO: P86-07-160

Received: 09 JUL 86 Reported: 30 JUL 86

Ken Durand
J. H. Kleinfelder & Associates
901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q-1014-3

LOG NO	SAMPLE DESCRIPTION , GROUND	WATER SAMPLE	S	DA	TE SAMPLED
07-160-3	W-07-(516-532) Q-1014-3 W-02-(535-551) Q-1014-3 W-08-(552-568) Q-1014-3 W-00-(533 & 534)				08 JUL 86 08 JUL 86 08 JUL 86
PARAMETER		07-160-1	07-160-2	07-160-3	07-160-4
Extraction 1,1-Dichle 1,2-Dichle 1,2-Dichle Acrolein, Acrylonit Chlorofore Ethylbenz Trichloro Toluene, trans-1,2	oroethane, ug/L oroethylene, ug/L oroethane, ug/L ug/L ug/L rile, ug/L m, ug/L ene, ug/L	07/19/86 8 2 <1 <10 <10 <1 4 67 5 9	07/19/86	07/19/86 76 8 14 <10 <10 2 2 28 3 6	07/19/86 (1 (1 (1) (10 (1) (1 (1) (1) (1) (1) (1) (1) (1) (1)
Ethylcyc Ethylmet Octahydr Octahydr Trimethy Trimethy	tified Results ** lohexane, ug/L hylcresol, ug/L o,lH-Indene, ug/L o-Methyl Pentalene, ug/L lcyclohexane, ug/L lcyclohexane, ug/L somers, ug/L	10 10 10 10 20 4	 2	10 20 10 20 	 1

^{**} Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

Received: 09 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

LOG NO	SAMPLE DESCRIPTION , GROUND	WATER SAMPLES	3	DA	TE SAMPLED
07-160-1 07-160-2 07-160-3 07-160-4	W-07-(516-532) Q-1014-3 W-02-(535-551) Q-1014-3 W-08-(552-568) Q-1014-3 W-00-(533 & 534)				08 JUL 86 08 JUL 86 08 JUL 86
PARAMETER		07-160-1	07-160-2	07-160-3	07-160-4
Hexavalent Nitrate Nit	Chromium, mg/L	(0.02	(0.02	(0.02	
	s NO3), mg/L	19	24	14	
	s N), mg/L	4.3	5.4	3.2	
TOC, Avera		5	(3	8	
	ard Deviation, mg/L	2.06	0	0.31	
	eplicate, mg/L	5	<3	8	
TOC, 2nd R	eplicate, mg/L	8	⟨3	8	
	deplicate, mg/L	5	₹3	9	
	Replicate, mg/L	3	⟨3	8	
	te Conductivity:				
	Average, umhos/cm	1900	1800	1700	
	Std. Deviation, umhos/cm	0	0	0	
	lst Replicate, umhos/cm	1900	1800	1700	
Sp. Cond.,	2nd Replicate, umhos/cm	1900	1800	1700	
	3rd Replicate, umhos/cm	1900	1800	1700	
Sp. Cond.,	4th Replicate, umhos/cm	1900	1800	1700	

Received: 09 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO SAMPLE DESCRIPTION	, GROUND WATER SAMPLI	ES	D	TE SAMPLED
07-160-1	014-3		<i></i>	08 JUL 86 08 JUL 86 08 JUL 86
PARAMETER	07-160-1	07-160-2	07-160-3	07-160-4
Quadruplicate pH:				
pH, Average, Units	7.4			
pH, Standard Deviation, Units				
pH, 1st Replicate, Units	7.4			
pH, 2nd Replicate, Units	7.4			
pH, 3rd Replicate, Units	7.4			
pH, 4th Replicate, Units	7.4			
Chloride, mg/L	280	220	170	
Quadruplicate TOX:				
TOX, 1st Replicate, ug/L	(80)		(80	
TOX, 2nd Replicate, ug/L	<80 <80		(80	
TOX, 3rd Replicate, ug/L	(80		(80 (80	
TOX, 4th Replicate, ug/L TOX, Average, ug/L	(80		(80	
TOX, Standard Deviation, ug/I		0	0	
Cadmium, mg/L	(0.01	-	-	
Chromium, mg/L	(0.03		(0.03	
Copper, mg/L	(0.02		⟨0.02	
Zinc, mg/L	(0.04			
Dissolved Digestion, Date		07/16/86		

Edward Wilson, Laboratory Director



ANALYTICAL LABORATORIES

RECEIVED

LOG NO: P86-07-150

AUG 0 4 1986

Received: 08 JUL 86 Reported: 29 JUL 86

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Ken Durand
J. H. Kleinfelder & Associates
901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q-1014-3

	LOG NO	SAMPLE DESCRIP	TION , GROUND W	ATER SAMPLE	S	DA	TE SAMPLED
•	07-150-1 07-150-2 07-150-3 07-150-4 J7-150-5		8) Q-1014-3 Q-1014-3 Q-1014-3				07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86
	PARAMETER		07-150-1	07-150-2	07-150-3	07-150-4	07-150-5
ı	Hexavalent (Chromium, mg/L rogen			<0.02	(0.02	<0.02
		s NO3), mg/L			18	55	31
	Nitrate (a:	s N), mg/L			4.1	12	7.0
	Quadruplica	te TOC:					
	TOC, Averag	ge, mg/L			35	5	⟨3
	TOC, Standa	ard Deviation,	ng/L		3.16	1.26	0
	TOC, 1st Re	eplicate, mg/L	**		31	5	⟨3
		eplicate, mg/L			34	5	⟨3
	TOC, 3rd Re	eplicate, mg/L			38	4	√3
	TOC, 4th Re	eplicate, mg/L			37	7	⟨3
	Quadruplicat	te Conductivity:	:				
	Sp. Cond.,	Average, umhos	/cm		1650	1400	1400
	Sp. Cond.,	Std. Deviation,	, umhos/cm		0	0	0
	Sp. Cond.,	1st Replicate,	umhos/cm		1650	1400	1400
		2nd Replicate,			1650	1400	1400
	Sp. Cond.,	3rd Replicate,	umhos/cm		1650	1400	1400
		4th Replicate,			1650	1400	1400
	Quadruplica	ate			0		
	Conductiv	ity:, umhos/cm					

Received: 08 JUL 86 Reported: 29 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

LOG NO	SAMPLE DESCRIPTION	, GROUND W	ATER SAMPLES	3	DA	TE SAMPLED
07-150-1 07-150-2 07-150-3 07-150-4 07-150-5	W-00-(461 & 462) Q-W-00-(497 & 498) Q-W-01-(463-479) Q-10W-05-(480-496) Q-10W-6B-(498-515) Q-10	1014-3 014-3 014-3				07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86
PARAMETER		07-150-1	07-150-2	07-150-3	07-150-4	07-150-5
pH, 1st Re pH, 2nd Re pH, 3rd Re pH, 4th Re Chloride, m Quadruplica	e, Units rd Deviation, Units plicate, Units plicate, Units plicate, Units plicate, Units	 		7.2 0.1 7.3 7.2 7.2 7.2 650	7.3 0.1 7.3 7.3 7.3 7.4 79	7.5 0.1 7.6 7.5 7.5 7.5 82
TOX, 2nd R TOX, 3rd R TOX, 4th R	eplicate, ug/L eplicate, ug/L eplicate, ug/L			<80 <80 <80	650 640 650	<80 <80 <80
TOX, Avera TOX, Stand Cadmium, mg Chromium, m	ard Deviation, ug/L/L			<80 0 <0.01 <0.03	650 5 <0.01 <0.03	<80 0 <0.01 <0.03
Copper, mg/L	_			(0.02 0.04	<0.02 <0.04	<0.02 <0.04

Received: 08 JUL 86 Reported: 29 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION	DATE SAMPLED				
07-150-1 07-150-2 07-150-3 07-150-4 07-150-5	W-00-(497 & 498) Q-1014-3 W-01-(463-479) Q-1014-3 W-05-(480-496) Q-1014-3					07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86 07 JUL 86
PARAMETER		07-150-1	07-150-2	07-150-3	07-150-4	07-150-5
Purgeable 1	i Digestion, Date Priority Pollutants			07/15/86		07/15/86
Extraction		07/18/86	07/18/86	07/18/86		07/18/86
	chloroethane, ug/L	(1	(1	(1	2.5	(1
•	oroethane, ug/L oroethylene, ug/L	(1 (1	〈1 〈1		3	<1 <1
	oroethane, ug/L	à	रं	ì	⟨1	रा
Acrolein,		⟨10	<10	<10	<10	<10
	rile, ug/L	<10	<10	⟨10	<10	<10
	Carbon Tetrachloride, ug/L		<1	<1	45.5	
Chlorofor	Chloroform, ug/L		<1	<1	14.5	· <1
Tetrachloroethylene, ug/L		<1	(1	(1	1	<1
Trichloroethylene, ug/L		(1 (1	<1	16	64	19
	Other Purgeable Priority Pollutants,		<1	. (1	(1	(1

Edward Wilson, Laboratory Director



BECEINED

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LOG NO: P86-07-186

IHK & A L

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand
J. H. Kleinfelder & Associates
901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q1014-3

-	LOG NO	SAMPLE DESCRIPTIO	N , GROUND W	ATER SAMPLE	5	DA	TE SAMPLED	
-			Q1014-3 Q1014-3 Q14-3				09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86	
	PARAMETER		07-186-1	07-186-2	07-186-3	07-186-4	07-186-5	
		Chromium, mg/L rogen				<0.02	10.02	120
		s NO3), mg/L				29 6.5	2.4 0.5	
-	Quadruplica	te TOC:				0.5		
1	TOC, Average					44	110	
1.		ard Deviation, mg/	L			6.40	8.17	
-		eplicate, mg/L eplicate, mg/L				39 40	100 110	
		eplicate, mg/L				45	120	
		eplicate, mg/L				53	110	
-		te Conductivity:						
		Average, umhos/cm				2200	3500	
		Std. Deviation, u				0	0	
	Sp. Cond.,	lst Replicate, um	hos/cm			2200	3500 3500	
		2nd Replicate, um				2200 2200	3500 3500	
		3rd Replicate, um 4th Replicate, um				2200	3500	
-	sp. cond.,	Acti Kehtteare, am	1103/ СШ ———			2400	3300	

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand
J. H. Kleinfelder & Associates
901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q1014-3

LOG NO	SAMPLE DESCRIPTION	, GROUND W	ATER SAMPLES	S	DA	TE SAMPLED
07-186-1 07-186-2 07-186-3 07-186-4 07-186-5	~	1014-3 1014-3 14-3				09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86
PARAMETER		07-186-1	07-186-2	07-186-3	07-186-4	07-186-5
pH, 1st RepH, 2nd RepH, 3rd RepH, 4th ReChloride, I	ge, Units and Deviation, Units eplicate, Units eplicate, Units eplicate, Units eplicate, Units eplicate, Units eplicate, Units mg/L ate TOX:				7.2 0.1 7.0 7.3 7.2 7.2 400	7.1 0.2 7.0 6.9 7.4 6.9 770
TOX, 2nd F TOX, 3rd F TOX, 4th F TOX, Avera					180 180 170 UTD 180	190 170 170 180 180
Chromium, mg Chromium, mg Copper, mg/ Zinc, mg/L	ng/L				6 (0.01 (0.03 (0.02 (0.04	10 0.04 120 (0.02 (0.04

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand
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901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q1014-3

LOG NO	SAMPLE DESCRIPTION	, GROUND W	ATER SAMPLE	S	D2	ATE SAMPLED
07-186-1 07-186-2 07-186-3 07-186-4 07-186-5	W-00-(596 & 570) Q W-00-(643 & 644) Q W-00-(607 & 608) Q W-03-(609-625) Q10 W-04-(626-642) Q10)1014-3)1014-3)14-3				09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86
PARAMETER		07-186-1	07-186-2	07-186-3	07-186-4	07-186-5
Dissolved D	igestion, Date				07/16/86	07/16/86

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-3

LOG NO	SAMPLE DESCRIPTION	S	DATE SAMPLED			
07-186-1 07-186-2 07-186-3 07-186-4 07-186-5	~	Q1014-3 Q1014-3 014-3				09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86 09 JUL 86
PARAMETER		07-186-1	07-186-2	07-186-3	07-186-4	07-186-5
Purgeable Extraction	Priority Pollutants	07/18/86	07/18/86	07/18/86	07/18/86	07/19/86
	roethane, ug/L	<1	(1	(1	4	57
	proethylene, ug/L	ά	ä	ί	7	41
	proethane, ug/L	ä	ίī	(i	6	69
Acrolein,	•	(10	<10	<10	<10	<10
Acrylonit	-	⟨10	⟨10	⟨10	⟨10	⟨10
	rachloride, ug/L	(1	(1	(1	110	(1
Chloroform	_	(1	<1	(1	97	8
Ethylbenze		(1	(1	⟨1	<1	1100
	Chloride, ug/L	<1	(1	<1	<1	17
Trichloroe	ethylene, ug/L	<1	<1	<1	170	200
Toluene, u		<1	<1	(1	<1	330
	-Dichloroethylene,		<1	<1	<1	10
	rgeable Priority	<1	(1	<1	<1	<1
Pollutant	is,			;		
	-161-1 0 16			į,		
-	ified Results **					• • •
Mylene Is	somers, ug/L					300

^{**} Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-3

LOG NO SA	MPLE DESCRIPTION , GROUND WATE	R SAMPLES	D	ATE SAMPLED	
	10-(571-587) Q1014-3 11-(588-604) Q1014-3			09 JUL 86	
PARAMETER		07-186-6	07-186-7		
Hexavalent Chr Nitrate Nitrog	omium, mg/L	<0.02	<0.02		
Nitrate (as N Nitrate (as N Quadruplicate	i), mag/L	0.6 0.1	4.8 1.1		
TOC, Average,	mg/L Deviation, mg/L	130 5.00 130	120 5.77 110		
TOC, 2nd Repl TOC, 3rd Repl TOC, 4th Repl	icate, mg/L icate, mg/L	130 130 140	110 120 120		
Quadruplicate Sp. Cond., Av	•	1600 100	1700		
Sp. Cond., 1s Sp. Cond., 2r Sp. Cond., 3r	t Replicate, umhos/cm d Replicate, umhos/cm d Replicate, umhos/cm h Replicate, umhos/cm	1600 1600 1400 1600	1700 1700 1700 1700		

Received: 10 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , GROUND WATER	SAMPLES	DAT	E SAMPLED
	W-10-(571-587) Q1014-3 W-11-(588-604) Q1014-3		,	09 JUL 86
PARAMETER		07-186-6	07-186-7	
Purgeable Extraction	Priority Pollutants	07/18/86	07/19/86	
	oroethane, ug/L	6	10	
	oroethylene, ug/L	7	5	
	oroethane, ug/L	86	17	
Acrolein,	•	<10	<10	
	rile, ug/L	<10	<10	
Chlorofor	_	<1	10	
Ethylbenz		(1	2200	
	ethylene, ug/L	56	76	
Toluene,	ug/L	(1	5200	
Other Pu	rgeable Priority Pollutants,	<1	<1	
-	tified Results ** somers, ug/L	70	1500	14
	ification based upon comparison of the nearest internal standard.	total ion count of	the compoun	i with

UTD = Unable to determine; bottle broken.

Edward Wilson, Laboratory Director

BROWN AND CALDWELL



ANALYTICAL LABORATORIES RECEIVED

LOG NO: P86-07-213

Received: 11 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

LOG NO SAMPLE DESCRIPTION , GROUND WATER SAMPLES		DATE SAMPLED		
07-213-1 W-4A-(662-678) Q-1014-3 07-213-2 W-09-(645-661) Q-1014-3 07-213-3 W-00-(679 & 680) Q-1014-3			10 JUL 86 10 JUL 86 10 JUL 86	
PARAMETER	07-213-1	07-213-2	07-213-3	
Hexavalent Chromium, mg/L	<0.02	(0.02		
Nitrate Nitrogen Nitrate (as NO3), mg/L	27	14		
Nitrate (as N), mg/L Quadruplicate TOC:	6.1	3.2		
TOC, Average, mg/L	.<3	28		
TOC, Standard Deviation, mg/L TOC, lst Replicate, mg/L	1.7 <3	1.5 27		
TOC, 2nd Replicate, mg/L TOC, 3rd Replicate, mg/L	(3 3	29 26		
TOC, 4th Replicate, mg/L	3	29		
Quadruplicate Conductivity: Sp. Cond., Average, umhos/cm	850	2000	·	
Sp. Cond., Std. Deviation, umhos/cm	0	2000		
<pre>Sp. Cond., lst Replicate, umhos/cm Sp. Cond., 2nd Replicate, umhos/cm</pre>	850 850	2000 2000		
Sp. Cond., 3rd Replicate, umhos/cm	. 850	2000		
Sp. Cond., 4th Replicate, umhos/cm	850	2000		

LOG NO: P86-07-213

Received: 11 JUL 86 Reported: 30 JUL 86

Ken Durand J. H. Kleinfelder & Associates 901 W. Victoria Street, Suite G Compton, California 90220

Project: Q-1014-3

REPORT OF ANALYTICAL RESULTS

	LOG NO	SAMPLE DESCRIPTION , GROUND WAT	TER SAMPLES	DA	TE SAMPLED
	07-213-1 07-213-2 07-213-3	W-4A-(662-678) Q-1014-3 W-09-(645-661) Q-1014-3 W-00-(679 & 680) Q-1014-3			10 JUL 86 10 JUL 86 10 JUL 86
	PARAMETER		07-213-1	07-213-2	07-213-3
	pH, 1st Re pH, 2nd Re pH, 3rd Re	e, Units rd Deviation, Units plicate, Units plicate, Units plicate, Units plicate, Units plicate, Units	7.6 0.1 7.6 7.7 7.6 7.6 7.6	7.2 7.2	
	TOX, 2nd R TOX, 3rd R TOX, 4th R TOX, Avera	eplicate, ug/L eplicate, ug/L eplicate, ug/L eplicate, ug/L	<80 <80 <80 <80 <80	120 100 100 90 100 13	
; *****	Cadmium, mg Chromium, m Copper, mg/ Zinc, mg/L	/L g/L	<0.01 <0.03 <0.02 <0.04 07/16/86	<0.01 <0.03 <0.02 <0.04	

LOG NO: P86-07-213

Received: 11 JUL 86 Reported: 30 JUL 86

Ken Durand
J. H. Kleinfelder & Associates
901 W. Victoria Street, Suite G
Compton, California 90220

Project: Q-1014-3

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , GROUND WA	TER SAMPLES	DA	TE SAMPLED
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Edward Wilson, Laboratory Director

J. H. KLEINFELDER & ASSOCIATES

APPENDIX C



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* Analysis labo J. H. KLEINFE Sample Number V-07- 531 V V 532 V -00-533 V V 53400	ratory should complet LDER & ASSOCIATES, Site Identification	Date Sampled	Analysis Requested Chromium (Total, Hex) Zince Chlorida EPA methol 624	and return top copy to Sample Condition Upon Receipt
* Analysis labo J. H. KLEINFE Sample Number V-07-53/ V V 532 V-00-533 V V 5340P	ratory should complet LDER & ASSOCIATES, Site Identification	Date Sampled	Analysis Requested Chromium (Total, Hex) Zince Chlorida EPA methol 624	and return top copy to Sample Condition Upon Receipt
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* Analysis labo J. H. KLEINFE Sample Number -07-53/ V 532 -00-533 V 53400 -02-535 " 53500 537	ratory should complet LDER & ASSOCIATES, Site Identification	Date Sampled	Analysis Requested Chromium (Total, Hex) Zince Chlorida EPA methol 624	and return top copy to Sample Condition Upon Receipt
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Sample	Site	Date	Analysis Sample Co	ndition
lumber	Identification	Sampled	Requested Upon Re	ceipt
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630 630 631 632 633 633 734 635 7636 NSTRUCTIONS:	silytical methodology as sampling, (b) lab rece s for all constituents	ould reference and QA work (blank eipt, (c) extracts analyzed for an	De billed by site ID# and contain the following:	

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CYZ -00 643 CYY DAY INSTRUCTIONS: La	rtical methodology ar	nd QA work (blan	symples————————————————————————————————————	EPA me thed 634 ed by site ID# and contain to duplicates)	he follow Ro	
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B INSTRUCTIONS:	Laboratory reports sho	ould reference a	nd be bi	Nied by site ID# and contain the	e following:		
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Sample	Site	Date	Analysis	Sample Condition
Number	Identification	Sampled	Requested	Upon Receipt
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